

Month: August 2023

• NEWS FROM THE SOLAR SECTION



August was a good start for the ASSA solar section. Two astronomy associations were willing to work together with the ASSA solar section and I would like to take the opportunity to thank and welcome the British Astronomy Association (BAA) and the Mexborough and Swinton Astronomy society (MSAS) both from the United Kingdom. Working together will take the ASSA solar section to new heights in solar science in Africa. Two observers from the BAA and MSAS were actively involved in August namely Andrew Devey from BAA and MSAS living in Spain and Mick Nicholls from BAA and MSAS living the United Kingdom.

A Whatsapp group, "Solar section ASSA/MSAS/BAA" was developed were information, images, Q&A etc can be shared. When you become a member of the solar section you will be added to the group.

• SUNSPOT OBSERVATIONS

			.		North	South	North	South
Day	Time	Groups	Spots	R no.	Groups	groups	spots	spots
1	1100	7	22	92	4	3	16	6
2	1120	6	16	76	4	2	9	7
3	1120	7	15	85	4	3	10	5
4								
5	1145	6	12	72	5	1	11	1
6	1145	6	9	69	5	1	8	1
7	1150	6	13	73	5	1	11	2
8	1105	6	10	70	5	1	7	3
9	1055	5	10	60	4	1	9	1
10	1225	4	9	49	3	1	8	1
11								
12	1055	3	11	41	2	1	10	1
13	1025	3	8	38	1	2	1	7
14	1110	5	11	61	3	2	8	3
15	1115	6	14	74	3	3	9	5
16								
17								
18	1125	6	13	73	2	4	7	6
19								
20	1050	5	7	57	4	1	3	4
21	1115	6	6	66	5	1	5	1
22	1500	6	6	66	5	1	5	1
23	1215	5	6	56	4	1	4	2
24	1125	5	12	62	4	1	10	2
25								
26								
27	1340	5	10	60	4	1	9	1
28	1340	4	7	47	2	2	4	3
29	1035	5	11	61	2	3	5	6
30	1105	4	9	49	1	3	4	5
31	1140	5	11	61	2	3	5	6
		-	_		_	-	-	-
				<u> </u>	North	South	North	South
		Groups	Spots	R no.	Groups	groups	spots	spots
		126	258	1518	83	43	178	80

Observation Days	24			
Total Sunspots Obse	erved 1518			
Observers	1			
Monthly Daily Mean Frequencies - MDF				
Total sunspots	63.3			
Total Groups	5.3			
Northern Groups	3.5			
Southern Groups	1.8			

Observers:

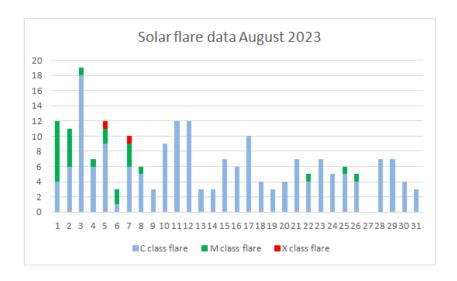
Jacques van Delft

ASSA Bloemfontein South Africa

When more than 1 observer is submitting sunspots, the average per day is calculated and noted.

• SOLAR FLARE ACTIVETY JULY 2023

Solar flares are classified according to their x-ray brightness in the wavelength range 1 to 8 Angstrom. There are 3 categories: C class – minor, M class – medium and X class – big. Each category has 9 subdivisions.



2023	August	C class	M class	X class
	1	4	8	
	2	6	5	
	3	18	1	
	4	6	1	
	5	9	2	1
	6	1	2	
	7	6	3	1
	8	5	1	
	9	3		
	10	9		
	11	12		
	12	12		
	13	3		
	14	3		
	15	7		
	16	6		
	17	10		
	18	4		
	19	3		
	20	4		
	21	7		
	22	4	1	
	23	7		
	24	5		
	25	5	1	
	26	4	1	
	27	0		
	28	7		
	29	7		
	30	4		
	31	3		
	Totals	184	26	2

NASA Credit: SDO

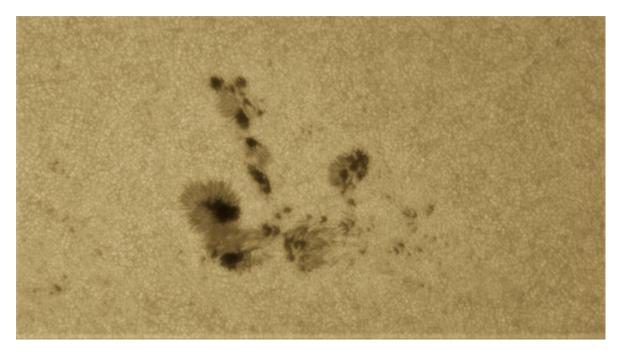
In the first 9 days of August, the Sun was active with M and X class flares. From the 9^{th} to the end of the month the flare activities decreased to only C class flares and only 3 M class flares.

• H Alpha Observations

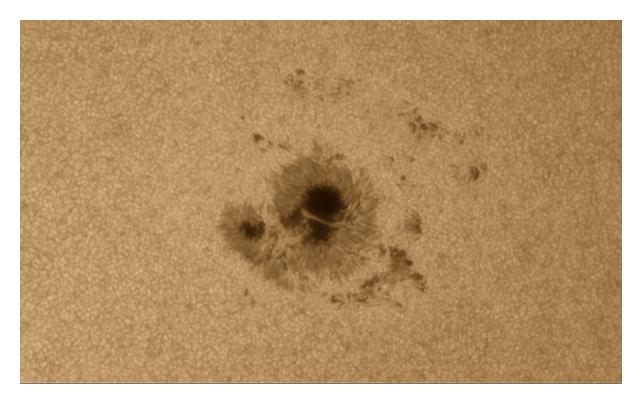
Two observers shared their H Alpha data for August 2023. Andrew Devey from BAA & MSAS living in Spain using a PST double stack H Alpha telescope, and Mick Nicholls from BAA and MSAS living in the United Kingdom using a PST 40mm single or double stack H Alpha telescope.

August 23	Counts	Observations	MDF
Prominence	181	37	4.9
Plague Areas	148	37	4.0
Filaments	235	37	6.4
Flares	4	37	0.1

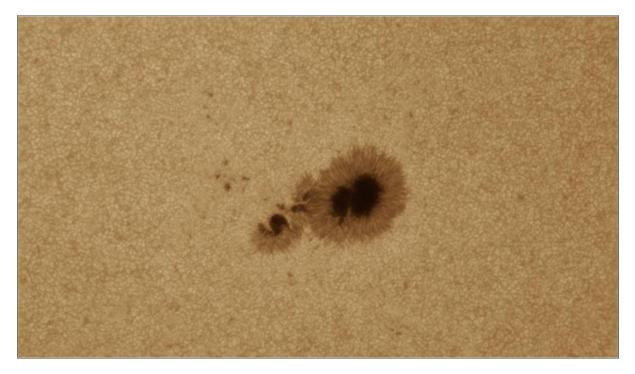
• Solar images



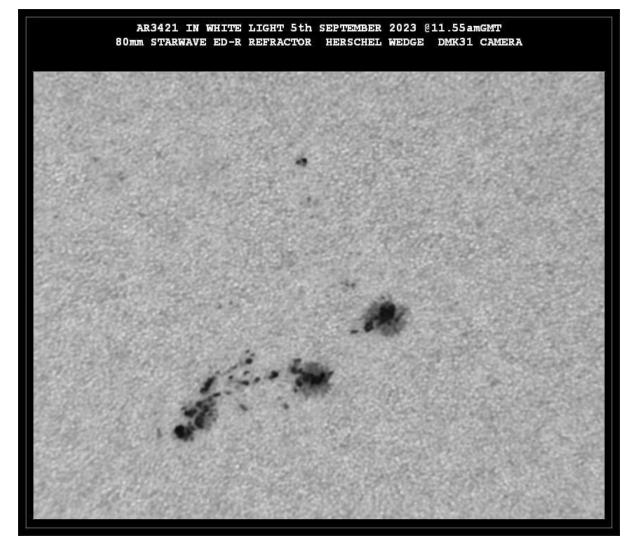
Andrew Devey BAA & MSAS image of AR3395



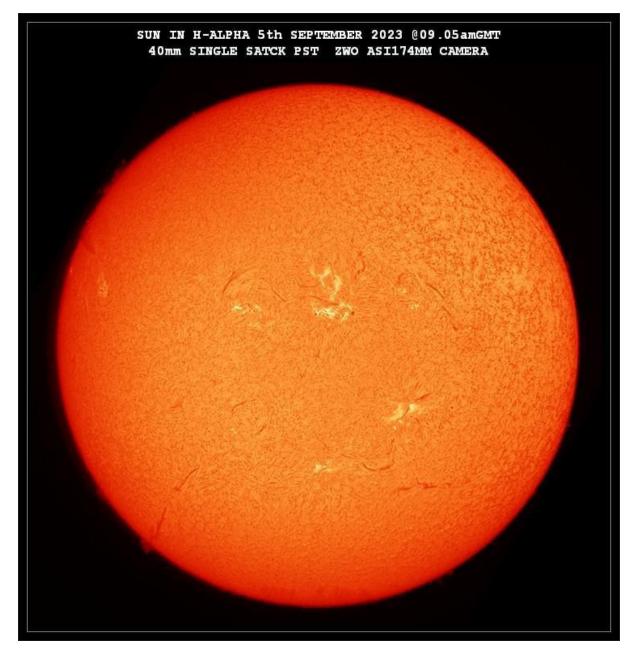
Andrew Devey BAA & MSAS Sunspot AR 3413



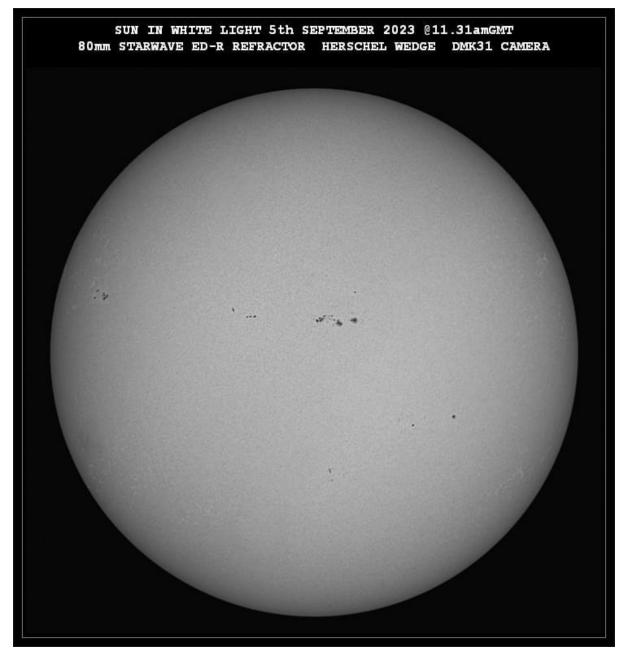
Andrew Devey BAA & MSAS Sunspots AR3415



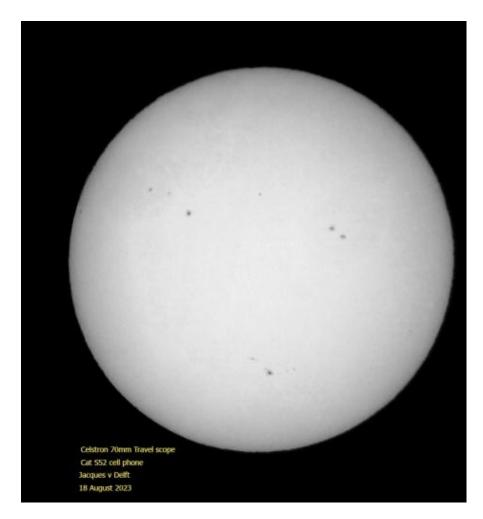
Mick Nicholls BAA & MSAS



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Jacques van Delft ASSA

Clear Skies

Jacques van Delft

Solar Section ASSA